

What is claimed is;

1. A liquid crystal display system comprising a liquid crystal cell system formed by sandwiching liquid crystal between first and second transparent electrode substrates and a light source for projecting substantially collimated light onto the first transparent electrode substrate, an image being viewed from the second transparent electrode substrate side, wherein the improvement comprises that

an optical compensation means is provided on each of the first transparent electrode substrate side and the second transparent electrode substrate side of the liquid crystal cell system, and

a light dispersing layer is provided on the second transparent electrode substrate side of the liquid crystal cell system.

2. A liquid crystal image display system as defined in Claim 1 in which said liquid crystal is twisted nematic liquid crystal.

3. A liquid crystal image display system as defined in Claim 1 in which the picture element density of said liquid crystal cell system in the horizontal direction is higher than that in the vertical direction.

4. A liquid crystal image display system as defined in Claim 3 in which the dimension of each picture

element in the vertical direction is larger than that in the horizontal direction.

5        5. A liquid crystal display system comprising a liquid crystal cell system formed by sandwiching liquid crystal between first and second transparent electrode substrates and a light projecting means for projecting light onto the first transparent electrode substrate, an image being viewed from the second transparent electrode substrate side, wherein the improvement comprises that

10        said light projecting means is disposed on the first transparent electrode substrate side adjacent thereto and comprises a point light source disposed in a position where it is near the first transparent electrode substrate and does not face the first transparent electrode substrate, a collimating optical system which collimates light emitted from the point light source to parallel light travelling in parallel to the first transparent electrode substrate and a reflecting mirror which is disposed facing the first transparent electrode substrate and reflects the parallel light to impinge upon the first transparent electrode substrate in perpendicular thereto, and

20        a light dispersing layer is provided on the second transparent electrode substrate side of the liquid crystal cell system.

25        6. A liquid crystal image display system as defined in Claim 5 in which said collimating optical system

comprises a Fresnel lens disposed in perpendicular to the first transparent electrode substrate near thereto and a condenser lens which directs light emitted from the point light source toward the Fresnel lens.

5           7. A liquid crystal image display system as defined in Claim 5 in which an optical compensation means is provided on the first transparent electrode substrate side of the liquid crystal cell system.

10           8. A liquid crystal image display system as defined in Claim 7 in which another optical compensation means is provided on the second transparent electrode substrate side of the liquid crystal cell system between the light dispersing layer and the liquid crystal cell system.

15           9. A liquid crystal image display system as defined in Claim 5 in which the liquid crystal cell system is divided into a plurality of regions and a light projecting means is provided for each region.

20           10. A liquid crystal image display system as defined in Claim 9 in which two or more of the light projecting means share one reflecting mirror.

          11. A liquid crystal image display system as defined in Claim 5 in which said liquid crystal is twisted nematic liquid crystal.

25           12. A liquid crystal image display system as defined in Claim 5 in which the picture element density of

said liquid crystal cell system in the horizontal direction is higher than that in the vertical direction.

13. A liquid crystal image display system as defined in Claim 12 in which the dimension of each picture element in the vertical direction is larger than that in the horizontal direction.

14. An image display system in which an image signal is reproduced as a visual image on a pixelized screen having a number of picture elements arranged in horizontal and vertical directions, wherein the improvement comprises that

the density of the picture elements in the horizontal direction is higher than that in the vertical direction.

15. An image display system as defined in Claim 14 in which the dimension in the vertical direction of each picture element is larger than that in the horizontal direction.

16. An image display system as defined in Claim 14 in which said image signal is such on which picture element density conversion processing for causing the density of the picture elements in the horizontal direction to be higher than that in the vertical direction has been carried out.

17. An image display system as defined in Claim 14 in which said image signal is such read out in such a

manner that the density of the picture elements in the horizontal direction becomes higher than that in the vertical direction.

18. An image display system as defined in Claim 14 in which said image signal is such read out on the basis of picture elements whose dimensions are larger in the vertical direction than in the horizontal direction.

19. An image display system as defined in Claim 14 in which said image signal is such read out on the basis of picture elements whose dimensions are larger in the vertical direction than in the horizontal direction and at the same time whose density is higher in the horizontal direction than in the vertical direction.

20. An image display system as defined in Claim 14 in which the density of the picture elements in the horizontal direction is at least 1.2 times as high as that in the vertical direction.

21. An image display system as defined in Claim 20 in which the density of the picture elements in the horizontal direction is at least three times as high as that in the vertical direction.

22. An image display system as defined in Claim 14 in which the dimension of each picture element in the vertical direction is at least 1.2 times as large as that in the horizontal direction.

23. An image display system as defined in Claim 22 in which the dimension of each picture element in the vertical direction is at least three times as large as that in the horizontal direction.

24. An image display system as defined in Claim 14 in which said pixelized screen comprises a liquid crystal panel.

25. An image display system as defined in Claim 14 in which a maximum brightness of the picture elements is higher than 800nit.